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| 5,282,227 | 1/1994 | Crawford | 455/258 |
| 5,289,506 | 2/1994 | Kitayama et al. | 375/97 |

0300491 1/1989 European Pat. Off. .

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A technique for maintaining a center frequency of an input signal at a nominal center frequency. Apparatus which implements this technique divides, using a pair of bandpass filters (122, 124), the modulation bandwidth of the input signal into two halves (half-bands) and measures the signal strength of the input signal in each half-band. Then, circuitry (126, 128, 130), connected to each filter, compares the signal strengths of the signals passing through each filter. The circuitry produces a difference signal representing a difference between the strength of each signal passing through each respective filter. The difference signal is used to adjust a frequency of a local oscillator signal produced by a local oscillator (112) within a tuner (104) such that the center frequency of the input signal is maintained by the tuner at the nominal center frequency.

22 Claims, 5 Drawing Sheets

[63] Continuation of Ser. No. 83,630, Jun. 28, 1993, abandoned.

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455/258; 375/344

[58] **Field of Search** 375/344, 97

[56]

4,523,324	6/1985	Marshall	375/97
4,896,336	1/1990	Henely et al.	375/97
5,150,382	9/1992	Kume	375/97
5,208,835	5/1993	Weeks et al.	375/97
5,251,218	10/1993	Stone et al.	455/324

